

## DT05 Rec'd PCT/PTO 0 5 DCT 2004



PTO/SB/08A (10-01)

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Complete if Known Substitute for form 1449A/PTO **Application Number** INFORMATION DISCLOSURE Filing Date First Named Inventor STATEMENT BY APPLICANT Kia Silverbrook Art Unit (use as many sheets as necessary) **Examiner Name** Attorney Docket Number YU182US NP of

U.S. PATENT DOCUMENTS Pages, Columns, Lines, Where Document Number Name of Patentee or **Publication Date** Examiner Cite Relevant Passages or Relevant Applicant of Cited Document MM-DD-YYYY Number-Kind Code<sup>2</sup> (if know Figures Appear Initials No.1 us- 20030095726 \* 22.05.2003 Silverbrook et al 07.24.2001 Silverbrook US- 6,264,850 \* 5,719,604 \* Inui et al 02:17:1998 US- 5,666,141-Matoba-et-al-09:09:1997 US- 4,672,398 \* .06.09.1987 .Kuwabara.et.al. US- 4,737,802 \* 04.12.1988 Mielke us- 5,029,805 \* 07.09.1991 Albarda et al US- 5,258,774 11.02.1993 Rogers 11-19-1985 Ruoff 4,553,393 US- 4,864,824 Gabriel-et-al--09.12-1989 US-\_5,867,183.\* Cornell et al. Eeb.2..1999 White et al US- 5,494,698 \* Feb 1996 US- 5,719,602 \* Feb 17, 1998 Hackleman et al us- 6,312,114 Nov 6, 2001 Silverbrook Nov-10,-1987 Yamakawa "4;706;130"\* us- 4,947,192 \* Aug-7,-1990 Hawkins et al. US- 5,107,276 Apr. 21, 1992 Kneezel et al Oct 1997 Dull us- 5,676,475 us- 5,412,410 \* May 2, 1995 Rezanka Matsumoto et al US- 6,467,870 \* Oct 2002 May-2000 Fabbri us- 5,752,303 \* May-1998-Thiel-Nov\_3,\_1992 Drake US- 5,160,945 \* US-

		FORI	EIGN PATENT D	OCUMENTS		
Examiner Initials	Cite No.1	Foreign Patent Document  Country Code 3 - Number 4 - Kind Code 5 (# known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	Т6
		WO 00/55089 *	09.21.2000	Silverbrook Research Pty L	td	
		JP 404001051 *	01.06.1992	Ricoh Co Ltd		
		EP 0-713-774-*	-05:29:1996	-Sharp-Kabushiki-Kaisha-	l	
		DE 195 16 997 *	11.16.1995	Sharp K.K	·····	
		DE 196 23 620 *	12.19.1996	Sharp K.K		ļ
		JP 2-108544 (Abstract) *	04.20.1990	Seiko Epson Corp		
		JP 2-92643 (Abstract) *	04.03.1990	Seiko Epson Corp		18
<u> </u>		JP 4-353458 (Abstract)	12:08:1992	Brother Ind Ltd		i
<u> </u>		JP-6-91865 (Abstract) *	-04:05:1994	-Seikosha-Co-Ltd		
		UP 6-91866.(Abstract) *	04.05.1994	_Seikosha Co Ltd		
5	[	JP 2-265752 (Abstract) *	10.30.1990	Matsushita Electronic Ind	Co_Ltd	.[
	<b></b>	EP 0 634 273	01.18.1995	Sharp Kabushiki Kaisha		

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Kia Silverbrook

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Examiner		Document Number	Publication Date	Name of Patentee or	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	
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		DE 195 32 913 *	03.28.1996	Sharp K.K		
		JP 58 112747 (Abstract) *	707:05:1983	Fujitsu KK		
		DE-43-28-433	-03:02-1995	-Heidleberger-Druckmasch	nen-AG	
		JP 61 025849 (Abstract) *	_02.04.1986	Canon Inc		ļ
		JP 01 128839 (Abstract) *	05.22.1989	Ricoh Co Ltd		
		JP 04 126255 (Abstract) *	04.27.1992	Seiko Epson Corp		
		GB 2 262 152 *	06.09.1993	Willett Int Ltd		
	ļ	DE-195-16-997	-11:16:1995	Sharp K:K		
	<u> </u>	JP-05-318724-(Abstract *	-12.03.1993	Seikosha-Co-Ltd		
		JP 02 162049 (Abstract) *	_06.21.1990	Seiko Epson Corp		ļ
		DE 32 45 283	06.07.1984	Siemens AG		<u> </u>
	i	JP 04 368851 (Abstract) *	12.21.1992	Seiko Epson Corp		

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		JP 02 158348 (Abstract) *	06.18.1990	Minolta Camera Co Ltd		
~~~~~		JP 03 112662 (Abstract) *	05.14.1991	Seiko Epson Corp		
		JP-03-653348 (Abstract) *	-03:20:1991	-Matsushita Electric Ind Co		
		EP 0 431 338	-06.12.1991	Matsushita Electric Ind Co		
		JP_01_257058*	10.13.1989	Seiko Epson Corp		
		DE 195 17 969 *	11.30.1995	Sharp K.K		
		DE 196 39 717 *	04.17.1997	Sharp K.K		
		EP 0 737 580	10.16.1996	Canon K.K	***************************************	
		EP 0-882-590	-12:09:1998	-Ganon-K-K		
		EP 0 478 956 *	_04.08.1992	-Kernforschungsz-Karlshru	he GMBH	<u> </u>
		DE 1 648 322 *	_03.24.1971	VDO Tachometerwerke GI	ивн	
		GB 1 428 239 *	03.17.1976	Cibie Projecteurs		

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Examiner	Cite	Document Number	Publication Date	Name of Patentee or	Pages, Columns, Lines, Where
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Initials	No.1	Country Code 3 - Number 4 - Kind Code 5 (# known)		Applicant of Cited Document	or Relevant Figures Appear	Т
		DE 39 34 280 *	04.26.1990	CAE di Cipelletti Alberto		
		DE 29 05 063 *	08:14:1980	Olympia Werke AG	***************************************	
		WO-94-18010	08.18.1994	Domino-Printing-Science	s-PLC	
·		EP 0 398 031 *	11.22.1990	Seiko_Epson_Corp		
		EP 0 427 291 *	05.15.1991	Seiko Epson Corp		
		JP 01 115639 (Abstract) *	05.08.1989	Ricoh Co Ltd		l
***************************************		JP 58 116165 (Abstract) *	07.11.1983	Canon K.K		
		EP-0-627-314	12:07 <del>:</del> 1994	Olivetti Canon Ind SPA		
		JP-61-268453-(Abstract) *	11.27.1986	Olympus-Optical-Co-Ltd		
		JP 04_118241 (Abstract) *	04.20.1992	Seiko Epson Corp		
		EP 0 506 232 *	09.30.1992	Videojet Systems Int, In	c	
***************************************		JP 07 314665 (Abstract) *	12.05.1995	Canon Inc		

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Initials	No.1	Country Code 3 - Number 4 - Kind Code 5 (if known)		Applicant of Cited Document	or Relevant Figures Appear	T				
		JP 03 180350 *	08.06.1991	Seiko Epson Corp		1				
		WO 97 12689 *	04.10.1997	The Board of Trustees of t						
	<u> </u>	JP 02 050841 (Abstract)	02.20.1990	_Seiko Epson Corp						
		EP 0 510 648 *	_10.28.1992	lvri_Yehuda						
		JP 05 28765 (Abstract) *	10.29.1993	Canon Inc						
***************************************		JP 04 141429 (Abstract)*	05.14.1992	Seiko Epson Corp						
		JP 01 105746 (Abstract)*	04:24:1989	Ricoh Co. Ltd						
	<b> </b>	GB-792-145*	-03:19:1958	- Technograph-Printed-Girc	uits-Ltd					
	ļ	EP 0-750-993 ****	01.02.1997	Canon-K.K						
		JP 01 306254 (Abstract)*	_12.11.1989	Seiko Epson Corp						
		EP 0 092 229 *	10.26.1983	Siemens AG		1				

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		DE 37 16 996 *	12.08.1988	VDO Schindling				
		DE 34 30 155 *	02:27:1986	Siemens AG				
	ļ	FR-2-231-076 *	12-20-1974	Electricite-De-France				
	<u> </u>	EP 837425 *	04.22.1998	Hewlett-Packard Co		ļ		
		EP 842777 *	Mar 14, 2001	Canon Kabushiki		l		
	1	WO 01/42020 *	Jun 14, 2001	Silverbrook				
		JP 404001051 *	Jan 1992	Komai				
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		NOWOROLSKI, J. MARK et al, "Process for in-plane and out-of-plane single-crystal-silicon thermal microactuators". Sensors and Actuators, A, CH, Elsevier-Sequoia-S:A., Lausanne, Vol-55, no1, 15-July-1996, pp-65-69, XP004077979 ISSN: 0924-4247.	-			
		ATAKA, MANABU et al, "Fabrication and Operation of Polymide Bimorph Actuators for Ciliary Motion System". Journal of Microelectromechanical Systems, US, IEEE Inc. New York, Vol. 2, no. 4, 1 December 1993, pp 146-150, XP000443412, ISSN: 1057-7157.				
		YAMAGATA, YUTAKA et al, "A Micro Mobile Mechanism Using Thermal Expansion and its Theoretical Analysis". Proceeding of the workshop on micro electro mechanical systems (MEMS), US, New York, IEEE, Vol. Workshop 7, 25 January-1994, pp-142-147, XP000528408, ISBN:-0-7803-1834-X.				
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